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4550. (Amended) The method of claim 4534, wherein a temperature of the one or more heat sources is maintained at a temperature of less than approximately 700 °C to produce a synthesis gas having a ratio of H₂ to carbon monoxide of greater than about 2.

4551. (Amended) The method of claim 4534, wherein a temperature of the one or more heat sources is maintained at a temperature of greater than approximately 700 °C to produce a synthesis gas having a ratio of H₂ to carbon monoxide of less than about 2.

4552. (Amended) The method of claim 4534, wherein a temperature of the one or more heat sources is maintained at a temperature of approximately 700 °C to produce a synthesis gas having a ratio of H₂ to carbon monoxide of approximately 2.

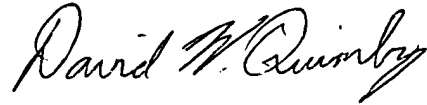
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4554. (Amended) The method of claim 4534, wherein a heat source of the one or more heat sources comprises a natural distributed heater.

4555. (Amended) The method of claim 4534, wherein a heat source of the one or more heat sources comprises a flameless distributed combustor (FDC) heater, and wherein fluids are produced from a wellbore of the FDC heater through a conduit positioned within the wellbore.

Applicant believes no fees are due in association with the filing of this document.
If any fees are required, please appropriately charge those fees to Conley, Rose & Tayon,
P.C. Deposit Account Number 50-1505/5659-09200/EBM.

Respectfully submitted,



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